

# RAMPSCAN

**R**AMPSCAN is a portable gamma radiation measurement and analysis system designed to rapidly measure and assess freshly collected standard aircraft filters for fission product likelihood. This can be done in minutes on the tarmac by the aircraft crew without the need to remove the filter from its protective envelope.

RAMPSCAN is completely computer driven and offers the user straightforward menu choices. The results of the measurement are shown in a "Go/No-Go" indication that clearly shows the operator which filters to ignore and which require further analysis.

- Performs rapid assessment of aircraft filters for gamma-ray fission products
- Can detect decay products from as few as  $10^7$  fissions, 7 days after release, with 95% confidence
- No preparation of the filter needed - can be counted in a standard filter envelope
- Designed to be used on the tarmac by the aircraft crew upon landing for rapid determination
- User friendly computer interface with straightforward Go/No-Go indication
- Typical sample count of 2 minutes



- Onboard calibration check source
- Program can be customized for specific user requirements
- Uses a 3" x 3" inline sodium iodide detector, 6.3% FWHM resolution
- Powered by rechargeable sealed lead acid batteries that are physically arranged around the detector to form a virtual shield and thus reduce background count
- Battery voltage display, charge indicator and live counting display option
- Four hours of continuous operation per charge; charger operates on 120 or 240 V a.c.
- Housed in a rugged aluminum case Size: L=43 cm, W=53 cm, H=18 cm, Weight: 19.5 kg

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